

TerraSIRch

Features

Rugged, lightweight, hand-held and very portable

High-resolution screen, easily readable in daylight

User accessible Compact Flash

Internal battery

USB, Ethernet, RS-232 ports for greater system flexibility

Applications

Concrete and Rebar Inspection

Utility Mapping

Geological Investigation

Snow/Ice Thickness Measurement

Archaeology

Forensics / Law Enforcement

Research



SIR-3000



The newest standard in non-destructive investigation of the earth and concrete.

The SIR-3000 is the newest GPR product from the world leader in Ground Penetrating Radar. This rugged, high-performance, single-channel radar system provides unrivaled scan rates with low noise.

This system is affordable, small and designed for easy single-user operation.

New features with future software upgrades:

- Easy 3D data collection (year end, 2002)
- Simple GPS data integration (Spring, 2003)



SIR®-3000 System Specifications (Preliminary)

System

Antennas: Compatible with all GSSI antennas

Number of Channels: 1 (one)

Data Storage:

Internal memory: 256 Mb Flash memory card

Compact Flash port: Accepts industry standard CF memory up to 1 GB (user provided).

Processor: 32-bit Intel StrongArm™ RISC processor @ 206 MHz

Display: Enhanced 8.4" TFT, 800 x 600 resolution, 64K colors

Display Modes: Line scan, O-scope

Data Acquisition

Data Format: RADAN (dzt)

Scan Rate Examples:

300 scans/sec at 256 samples/scan

150 scans/sec at 512 samples/scan

Sample size: 8-bit or 16-bit, user-selectable

Scan Interval: User-selectable.

Number of samples per scan:

256, 512, 1024, 2048, 4096, 8192

Operating Modes:

Free run, survey wheel, point mode

Time Range:

0-8,000 nanoseconds full scale, user-selectable.

Gain: Manual or automatic, 1-5 gain points (-20 to +80 dB)

Filters:

Vertical: Low-Pass and High-Pass IIR and FIR

Horizontal: Stacking, Background Removal

Operating

Operating Temperature:

-10°C to 40°C ambient (preliminary)

Charging Power Requirements:

15 V DC, 4 amps

Battery: 10.8 V DC, internal.

Transmit Rate: Up to 192 KHz

Input/Output

Available Ports:

Antenna input

DC power input

Ethernet Input/Output

RS232 (GPS port)

Compact Flash memory

USB master/slave

Mechanical

Dimensions:

31.5 (L) x 22 (W) x 10.5 (H) cm

12.4" x 8.7" x 4.1"

Weight: 4.1 kg, (9 lbs) including battery

Environmental: Water resistant

System Includes:

SIR-3000 data acquisition system

Transit case

2 batteries

AC adapter

User manual

Carrying harness (optional)

Sunshade (optional)

Antennas and antenna control cables sold separately.

Fully FCC Compliant



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